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PTO/SB/05 (11-00)

Approved for use through 10/31/2002. OMB 0651-0032

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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### UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No. 42.P16639

(maximum 12 characters)

First Named Inventor Qing Ma

Title: SIZE SCALING OF FILM BULK ACOUSTIC RESONATOR (FBAR) FILTERS  
USING IMPEDANCE TRANSFORMER (IT) OR BALUN

Express Mail Label No. EV320119254US

ADDRESS TO: **Mail Stop New Application  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450**

### APPLICATION ELEMENTS

See MPEP chapter 600 concerning utility patent application contents.

1. XX **Fee Transmittal Form (e.g., PTO/SB/17)**  
(Submit an original, and a duplicate for fee processing)
2.        **Applicant Claims Small Entity Status. (37 CFR 1.27)**
3. XX **Specification (Total Pages 18 )**  
(preferred arrangement set forth below)
  - Descriptive Title of the Invention
  - Cross Reference to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference sequence listing, a table,  
or a computer program listing appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
4. XX **Drawings(s) (35 USC 113) (Total Sheets 6 )**
5. XX **Oath or Declaration (Total Pages 5 )**
  - a. XX Newly Executed (Original or Copy)
  - b.        Copy from a Prior Application (37 CFR 1.63(d))  
(for Continuation/Divisional with Box 17 completed)
    - i.        DELETIONS OF INVENTOR(S) Signed statement attached deleting  
inventor(s) named in the prior application, see 37 CFR 1.63(d)(2)  
and 1.33(b).
  - c.        Unsigned.
6.        **Application Data Sheet. (37 CFR 1.76)**
7.        **CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)**
8.        **Nucleotide and/or Amino Acid Sequence Submission**  
(if applicable, all necessary)
  - a.        **Computer Readable Form (CRF)**
  - b.        **Specification Sequence Listing on:**
    - i.        **CD-ROM or CD-R (2 copies); or**
    - ii.        **paper**



## ACCOMPANYING APPLICATION PARTS

- |     |               |  |
|-----|---------------|--|
| 9.  | <u>XX</u>     | <b>Assignment Papers (cover sheet &amp; documents(s))</b>  |
| 10. | <u>      </u> | a. Separate 37 CFR 3.73(b) Statement (where there is an assignee)  |
|     | <u>XX</u>     | b. Power of Attorney   |
| 11. | <u>      </u> | English Translation Document (if applicable)   |
| 12. | <u>      </u> | a. Information Disclosure Statement (IDS)/PTO-1449   |
|     | <u>      </u> | b. Copies of IDS Citations   |
| 13. | <u>      </u> | <b>Preliminary Amendment</b>   |
| 14. | <u>XX</u>     | <b>Return Receipt Postcard (MPEP 503) (Should be specifically itemized)</b>  |
| 15. | <u>      </u> | Certified Copy of Priority Document(s) (if foreign priority is claimed)  |
| 16. | <u>      </u> | <b>Request and Certification under 35 U.S.C. 122(b)(2)(B)(i). <u>Applicant must attach form PTO/SB/35 or its equivalent.</u></b> |
| 17. | <u>XX</u>     | Other: separate sheet with title, express mail label, copy of postcard and attorney's signature                                  |

**18A. If a CONTINUING APPLICATION, check appropriate box and supply the requisite information:**

\_\_\_\_ Continuation Of Prior Application No.:      \_\_\_\_ Divisional Examiner      \_\_\_\_ Continuation-in-part (CIP) Group Art Unit

(which is a \_\_\_\_ continuation/ \_\_\_\_ divisional/ \_\_\_\_ CIP of prior application no. \_\_\_\_\_,  
which is a \_\_\_\_ continuation/ \_\_\_\_ divisional/ \_\_\_\_ CIP of prior application no. \_\_\_\_\_) (List entire chain of priority)

**For CONTINUATION AND DIVISIONAL APPS only:** The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

**18B. Statement under 37 CFR 3.73(b) for continuing application:**

The undersigned states that \_\_\_\_\_ (name of assignee) is the assignee of the entire right, title, and interest in the accompanying patent application by virtue of an assignment recorded in the Patent and Trademark Office at Reel No. \_\_\_\_\_ Frame No. \_\_\_\_\_ (or a copy of which is attached).

## 19. Correspondence Address

\_\_\_\_\_ Customer Number or Bar Code Label  
or  
\_\_\_\_\_ (Insert Customer No. or Attach Bar Code Label here)

<b>X</b>	Correspondence Address Below
----------	------------------------------

NAME Todd M. Becker

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

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## Seventh Floor

CITY Los Angeles

STATE California

ZIP CODE 90025-1026

Country U.S.A.

TELEPHONE (206) 292-8600

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**Name (PRINT/TYPE):** Todd M. Becker

**Registration Number: 43,487**

**Signature:**

**Dat :** 10-31-03

**FEE TRANSMITTAL FOR FY 2004**

(FY 2004 Begins 10/01/2003)

**TOTAL AMOUNT OF PAYMENT (\$)** 1292.00

Complete if Known:

Application No. 42.P16639Filing Date October 31, 2003First Named Inventor Qing MaExaminer Name Not yet assignedArt Unit Not yet assignedAttorney Docket No. 42.P16639☐ Applicant claims small entity status. See 37 CFR 1.27.**METHOD OF PAYMENT** (check all that apply)☒ Check ☐ Credit Card ☐ Money Order ☐ Other ☐ None☒ Deposit AccountDeposit Account Number : 02-2666

Deposit Account Name: \_\_\_\_\_

☒ The Director is Authorized to do the following with respect to the above-identified Deposit Account:☐ Charge fee(s) indicated below.☒ Credit any overpayments.☒ Charge any additional fees during the pendency of this application.☒ Any concurrent or future reply that requires a petition for extension of time should be treated as incorporating an appropriate petition for extension of time and all required fees should be charged.☐ Charge fee(s) indicated below except for the filing fee.**FEE CALCULATION****1. BASIC FILING FEE**

<u>Large Entity</u>		<u>Small Entity</u>		<u>Fee Description</u>	<u>Fee Paid</u>
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1001	770	2001	385	Utility application filing fee	<u>770</u>
1002	340	2002	170	Design application filing fee	_____
1003	530	2003	265	Plant filing fee	_____
1004	770	2004	385	Reissue filing fee	_____
1005	160	2005	80	Provisional application filing fee	_____
SUBTOTAL (1) \$					<u>770</u>

**2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE**

			<u>Extra Claims</u>	<u>Fee from below</u>	<u>Fee Paid</u>
Total Claims	<u>42</u>	- 20** =	<u>22</u>	X <u>396</u> =	<u>396</u>
Independent Claims	<u>4</u>	- 3** =	<u>1</u>	X <u>86</u> =	<u>86</u>
Multiple Dependent				_____ =	<u>0</u>

\*\*Or number previously paid, if greater; For Reissues, see below.

<u>Large Entity</u>		<u>Small Entity</u>		<u>Fee Description</u>
Fee Code	Fee (\$)	Fee Code	Fee (\$)	
1202	18	2202	9	Claims in excess of 20
1201	86	2201	43	Independent claims in excess of 3
1203	290	2203	145	Multiple dependent claim, if not paid
1204	86	2204	43	**Reissue independent claims over original patent
1205	18	2205	9	**Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) \$ 482

**FEE CALCULATION (continued)****3. ADDITIONAL FEES**

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
1813	8,800	1813	8,800	Request for inter parties reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	420	2252	210	Extension for reply within second month	
1253	950	2253	475	Extension for reply within third month	
1254	1,480	2254	740	Extension for reply within fourth month	
1255	2,010	2255	1,005	Extension for reply within fifth month	
1401	330	2401	165	Notice of Appeal	
1402	330	2402	165	Filing a brief in support of an appeal	
1403	290	2403	145	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,330	2453	665	Petition to revive - unintentional	
1501	1,330	2501	665	Utility issue fee (or reissue)	
1502	480	2502	240	Design issue fee	
1503	640	2503	320	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	40
1809	770	2809	385	For filing a submission after final rejection (see 37 CFR 1.129(a))	
1814	110	2814	55	Statutory Disclaimer	
1810	770	2810	385	For each additional invention to be examined (see 37 CFR 1.129(b))	
1801	770	2801	385	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	
1504	300	1504	300	Publication fee for early, voluntary, or normal pub.	
1505	300	1505	300	Publication fee for republication	
1803	130	1803	130	Request for voluntary publication or republication	
1808	130	1808	130	Processing fee under 37 CFR 1.17(i) (except provisionals)	
1454	1,330	1454	1,330	Acceptance of unintentionally delayed claim for priority	
Other fee (specify) _____					
Other fee (specify) _____					
SUBTOTAL (3) \$					40

\*Reduced by Basic Filing Fee Paid

**SUBMITTED BY:**

Typed or Printed Name: Todd M. Becker

Signature: Todd M. Becker Date: 10-31-03

Reg. Number: 43,487 Telephone Number: 206-292-8600

Send to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

Our Reference: 42.P16639

Patent

TITLE

SIZE SCALING OF FILM BULK ACOUSTIC RESONATOR (FBAR) FILTERS USING  
IMPEDANCE TRANSFORMER (IT) OR BALUN

Inventors: Qing Ma and Dong S. Shim

Respectfully submitted,

BLAKELY SOKOLOFF TAYLOR & ZAFMAN LLP



Todd M. Becker  
Reg. No. 43,487

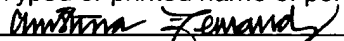
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Date of Deposit: October 31, 2003

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addressed to the Mail Stop New Application, Commissioner for Patents,  
P.O. Box 1450, Alexandria, VA 22313-1450

Christina Fernandez

(Typed or printed name of person mailing paper or fee)

 October 31, 2003

(Signature of person mailing paper or fee)

(Date signed)